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APPLICATION N	0.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/511,503		10/15/2004	Viktor Vladimirovich Dmitriev	DMITRIEV ET AL 1 PCT	4202	
25889	759	0 10/05/2006		EXAMINER		
WILLIA			HRUSKOCI, PETER A			
COLLARD & ROE, P.C. 1077 NORTHERN BOULEVARD ROSLYN, NY 11576				ART UNIT	PAPER NUMBER	
				1724		
				DATE MAILED: 10/05/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
		10/511,503	DMITRIEV ET AL.					
	Office Action Summary	Examiner	Art Unit					
		Peter A. Hruskoci	1724	_				
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	correspondence address	•				
WHIC - External after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communicat D (35 U.S.C. § 133).					
Status								
1)	Responsive to communication(s) filed on <u>15 O</u>	ctober 2004						
	This action is FINAL . 2b)⊠ This action is non-final.							
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
·	closed in accordance with the practice under E							
Dispositi	on of Claims			•				
	Claim(s) <u>4-6</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>4-6</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)	Claim(s) are subject to restriction and/or	r election requirement.						
Applicati	on Papers							
9)	The specification is objected to by the Examine	r						
	The drawing(s) filed on is/are: a) acce		Examiner.					
,	Applicant may not request that any objection to the	· · · · · · · · · · · · · · · · · · ·						
	Replacement drawing sheet(s) including the correct			l(d).				
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority ι	ınder 35 U.S.C. § 119							
	Acknowledgment is made of a claim for foreign ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a))-(d) or (f).					
	1. Certified copies of the priority documents	s have been received.						
	2. Certified copies of the priority documents	• •						
	3. Copies of the certified copies of the prior	•	ed in this National Stage					
	application from the International Bureau							
* 8	See the attached detailed Office action for a list	of the certified copies not receive	ed.					
Attachmen	t(s)							
	e of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail Da						
	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P						
	r No(s)/Mail Date	6) Other:						

The disclosure is objected to because of the following informalities: In the specification on pages 8 and 9 Tables 1-3, the commas should be changed to decimal points.

Appropriate correction is required.

Claims 4-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In claim 1 "reiterated cycles" and "frequency...Hz" are vague and indefinite because it is unclear how these terms further limit the claims. In claim 4 "the electrocoagulator" lacks clear antecedent basis. Claims 5 and 6 depend from claim 4.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Arnaud 6,582,592 or Gavrel et al. 6,719,894. Arnaud (see col. 6 line 36 through col. 8 line 10) and Gavrel et al. (see col. 3 line 15 through col. 5 line 31) disclose a method of treating polluted or waste water by electrocoagulation substantially as claimed. The claim differs from Arnaud or Gavrel et al. by reciting that the method steps include specific pressure and frequency ranges. It is submitted that the pressure and frequency utilized in the methods of Arnaud and Gavrel et al. appear to be patentably indistinguishable from the pressure and frequency recited in the instant claims. It would have been obvious to one skilled in the art to modify the method of Arnaud or Gavrel et al. by utilizing the recited pressure and frequency ranges, to aid in coagulating solids in the polluted water. The specific pressure and frequency ranges, and cycles utilized, would have

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been considered an obvious matter of process optimization to one skilled in the art, depending on the specific water treated and results desired, absent a sufficient showing of unexpected results.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Arnaud 6,582,592 or Gavrel et al. 6,719,894 as above, and further in view of RU 2140880 Abrosimov et al. The claim differs from Arnaud or Gavrel et al. by reciting that the electrocoagulation is followed by gravitational separation at a specific pressure. Abrosimov et al. disclose (see Abstract) that it is known in the art to utilize electrocoagulation and pressurized gravitational separation to aid in treating waste water. It would have been obvious to one skilled in the art to modify the method of Arnaud or Gavrel et al. by utilizing the recited gravitational separation, in view of the teachings of Abrosimov et al., to aid in separating coagulated solids in the polluted water. The specific pressure utilized, would have been considered an obvious matter of process optimization to one skilled in the art, depending on the specific water treated and results desired, absent a sufficient showing of unexpected results.

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Arnaud 6,582,592 or Gavrel et al. 6,719,894 as above, and further in view of RU 2146655 Abrosimov et al. The claim differs from Arnaud or Gavrel et al. by reciting that the electrocoagulation is followed by separation in a specific IR-spectrum electromagnetic radiation. Abrosimov et al. disclose (see Abstract) that it is known in the art to utilize electrocoagulation and IR spectrum radiation separation to aid in purifying sewage. It would have been obvious to one skilled in the art to modify the method of Arnaud or Gavrel et al. by utilizing the recited IR-spectrum separation, in view of the teachings of Abrosimov et al., to aid in purifying the polluted water. The specific heating power utilized, would have been considered an obvious matter of process optimization to

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one skilled in the art, depending on the specific water treated and results desired, absent a sufficient showing of unexpected results.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter A. Hruskoci whose telephone number is (571) 272-1160. The examiner can normally be reached on Monday through Friday from 6:30AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on (571) 272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Primary Examiner
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